

Listing of Claims:

1. (Original) A pump used in connection with a container filled with a liquid, the pump comprising:
 - a) a pump body defining an air chamber and a liquid chamber separated by a seal;
 - b) a cup slidably received within said pump body at said liquid chamber, said cup being in selective communication with the liquid, whereby said cup is filled with liquid when the pump is in an idle position;
 - c) a head assembly slidably mounted within said pump body and sealingly engaging said air chamber;
 - d) a plunger extending from said head assembly through said seal and into said cup and slidably received therein; and
 - e) a mixing chamber in selective fluid communication with said liquid chamber and said air chamber, said mixing chamber opening externally of said head assembly, whereby operation of the pump causes liquid from the liquid chamber and air from the air chamber to mix in the mixing chamber to form a foam which is discharged from the head assembly;
 - f) wherein said cup is spaced from an end of said pump body by a first spring adapted to urge said cup toward said plunger;
 - g) wherein said plunger is adapted to bottom out in said cup to empty said liquid chamber; wherein said air chamber is sized to allow further inward movement of said head assembly after said plunger bottoms out, whereby said further inward movement of said head assembly compresses said spring and forces a blowing charge from said air chamber through said mixing chamber and said head assembly to evacuate any foam remaining therein.
2. (Original) The pump of Claim 1, wherein said cup has a base, said base being spaced from said end of said pump body and wherein said spring is located between said end and said base.

3. (Original) The pump of Claim 1, wherein said cup includes a valve adapted to selectively allow liquid from the container to fill said liquid chamber.
4. (Original) The pump of Claim 3, wherein said cup includes a base defining an opening in communication with the liquid; wherein said valve is seated in said base and axially slidable relative thereto, said valve including a stem portion and a head portion extending radially outward thereto to cover said opening.
5. (Original) The pump of Claim 4, wherein said head portion of said valve includes a flexible flange adapted to flex outwardly from said base in said cup when a negative pressure is formed within said cup by said plunger.
6. (Original) The pump of Claim 1, wherein said plunger includes a hollow shaft extending outwardly from said mixing chamber and a sleeve mounted on said shaft, wherein said sleeve slidably engages an inner surface of said cup, wherein said shaft defines a port opening outward from said bore; wherein said sleeve is positioned over said port and slidable on said shaft to expose said port to said fluid as said plunger is driven into said liquid chamber, whereby liquid from said liquid chamber travels through said port and said bore toward said mixing chamber.
7. (Original) The pump of Claim 1 further comprising a screen mounted downstream of said mixing chamber whereby the foam exiting said mixing chamber passes through said screen.
8. (Original) The pump of Claim 1, wherein selective fluid communication between the air chamber and the mixing chamber is controlled by a first valve and a second valve, said first valve being in communication with said air chamber and a vent opening externally of the pump, said second valve being in fluid communication with said air chamber and said mixing chamber, wherein said first and second valves are flexible, wherein inward movement of said head assembly pressurizes said air chamber flexing said first valve to a closed position and said

second valve to an open position allowing air from said air chamber to be directed to said mixing chamber and whereby a negative pressure within said air chamber causes said first valve to flex open allowing air from outside of the pump to enter said air chamber.

9. (Original) The pump of Claim 1 further comprising a second spring operatively engaging said pump body and said head assembly, whereby said second spring urges said head assembly outward from said pump body.
10. (Original) The pump of Claim 9, wherein said first spring has a greater compression strength than said second spring.
11. (Canceled)
12. (Canceled)
13. (Canceled)
14. (Canceled)
15. (New) A pump used in connection with a container filled with a liquid, the pump comprising: a pump body defining an air chamber; a cup housed within and moveable relative to said pump body, said cup defining a liquid chamber, said cup being in selective fluid communication with the container; a head assembly movable relative to the pump body and adapted to mix air from said air chamber and liquid from said liquid chamber, said mixture being dischargeable through a nozzle during a portion of a single pump stroke; a spring biasing said liquid chamber toward said head, such that movement of said head during said pump stroke evacuates said liquid chamber before evacuating all of the air in said air chamber, whereby compression of said spring during the remainder of said pump stroke discharges air from said air chamber through said nozzle.